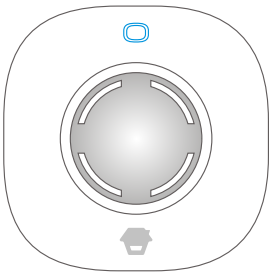
smanos®

S105

On-Site Alarm System



User Manual

© 2014 smanos. All rights reserved.

Printed in China
PA: OI-S105-EN-1404-V1.0

Table of Contents

Product Introduction 1~4

Foreword
Features
In the Box

On-Site Alarm Panel 5~6

Alarm Panel Overview
Power On
Power Off

Test and Install Accessories 7~25

Remote Control
- Overview
- Arm(Away Arm)
- Disarm
- Home Mode (Part Arm)
- SOS
- Mute Operation
- Nightlight On/Off

Test and Install the Door/Window Contact
- Overview
- Test the Door/Window Contact
- Install the Door/Window Contact

Test and Install the PIR Motion Detector
- Overview
- Working Mode
- Test the PIR Motion Detector
- Install the PIR Motion Detector
- Installation Notices

Connecting and Deleting Accessories 26~28

Pairing the Remote Control
Pairing the Door/Window Contact
Pairing the PIR Motion Detector
Deleting Accessories

Zone Setting For Wireless Accessories 29

Entry and Exit Delay 30

Act as an Accessories Kit 31~32

Pairing the Siren to the Control Panel
Pairing Other Wireless Detector to the Control Panel
Deleting the Siren from the Control Panel
Deleting Accessories from the Control Panel

Specifications 33~36

Disclaimer 37

Caution and Warnings 38

Terms of Warranty 39

Notes 40

Product Introduction

Foreword

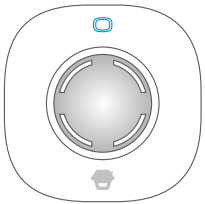
Dear Customers:
Thank you for purchasing S105. This product is a totally plug & play wireless home security solution. It features automatic pairing to various accessories, putting your home under all-round protection. To experience this wonderful product, please follow the instructions in the user manual.

Please read this manual carefully before using.
Please kindly keep this user manual for your reference when necessary.

Features

100% wireless configuration, easy to use
Compact and streamline design
One-button pairing
Work as accessory or standalone alarm panel
Built-in battery for 8-hour standby
Mute operation
Nightlight function
Support 40 wireless accessories (including remote control)
Built-in 1,000,000 RF codes combination maintains high reliability

In the Box

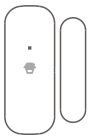


SS1005 Alarm Panel x 1

The alarm panel receives and processes signals from wireless accessories. When the accessory is triggered, the panel will alarm and the strobe light will flash to deter intruders. With plug-in design, it is powered by AC 100~240V by plugging it into a wall outlet.

MD2300 PIR Motion Detector x 1

The detector adopts digital dual-core fuzzy logic control processing technology and intelligent analysis algorithm, effective resolution of interfering signal and human movement signal, preventing false alarm. It can detect the temperature and movement of human bodies within the 8-meter cone space. When detecting human movement twice in 3 minutes, it switches to the power-saving mode automatically. After 3 minutes of no human movement, it switches to the working state.



DS2300 Door/Window Contact x 1

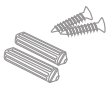
The contact can be used for doors, windows, or other devices that can be opened or closed. Once a window or door is opened (the transmitter and magnet are separated), thesystem will trigger an alarm.

RE2300 Remote Control x 2

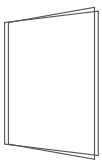
It's convenient to carry. With the remote control, you can arm/disarm the system, set home mode, perform mute arm/disarm, make an emergency call.

Double-sided Tape x 4
(2pcs for door/window contact, 2pcs for PIR sensor)

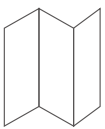
Bracket for PIR Detector x 1



Screw Kit x 1
(For PIR sensor)



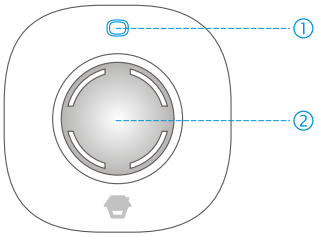
User Manual x 1



Quick Guide x 1

On-Site Alarm Panel

Alarm Panel Overview



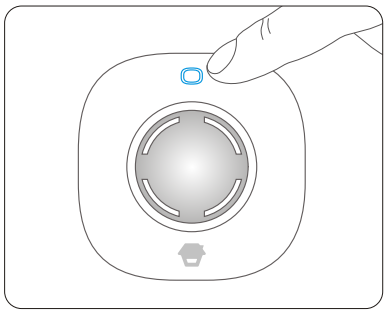
① Power button/connect button ② Strobe light

Siren and Strobe Light

Status	Siren	Strobe Light
Arm or Home Arm	Beeps once	Flashes once and then on
Disarm	Beeps twice	Flashes twice and then off
Mute Arm	No beep	Lights on
Mute Disarm	No beep	Lights off

Power On

The siren is powered off by default. Plug the siren into a power outlet. Press the power button. It beeps once, indicating power is on.



Power Off

After the siren is powered on, press the power button once. Then, press and hold the power button for 6 seconds until a beep is heard, indicating power is off.

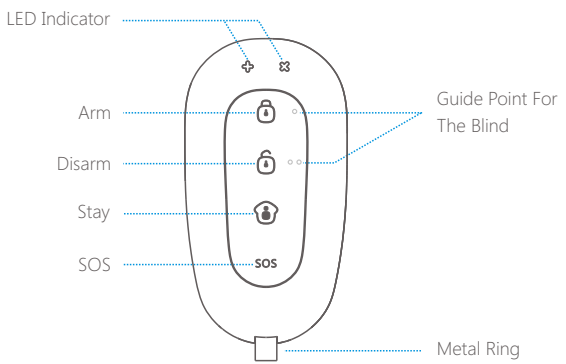
Test and Install Accessories

Accessories in this kit can work only with our control panels.

Remote Control

RE2300 remote control is dainty and delicate, easy to carry. It can be attached to your key ring, or just put into your pockets or purses. When you are about to exit or entry the house, you can use it to arm or disarm the system. In case of any emergency, just press the [SOS] button, the alarm will be activated immediately.

Overview



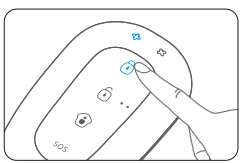
LED Indication

- LED blinks once: Armed or in home mode
- LED blinks once: Disarmed
- LEDs blinks once: SOS

Arm(Away Arm)

In arm state, the system will trigger an alarm when detecting intrusion.

Press the [Arm] button. The siren beeps once, indicating the system is in the arm state.

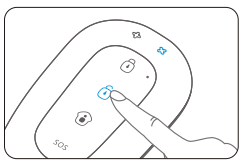


Note: If you do not want to take the remote control, entry and exit delay time can be set. For related definition and setting, please refer to page 29.

Disarm

In disarm state, the detectors (except those accessories in the 24-hour zone) will not trigger an alarm when detecting intrusion.

Press the [Disarm] button. The siren beeps twice, indicating the system is in disarm state.

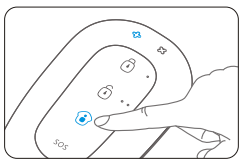


Note: If entry and exit delay is set, you can enter your home directly in the arm state, then disarm the system within the delay time. No alarm will be triggered in this case. If you disarm the system after the delay time, the system will trigger an alarm.

Home Mode(Part Arm)

In home mode, detectors that set in home zone are in disarm state; the other detectors are still in arm state. That is, you can move freely in the home zone; however, the rest areas are still being protected.

Press the [Stay] button. 3 seconds later, the siren beeps once indicating the system is in home mode state.

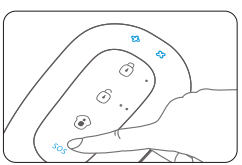


Note: The PIR detector is set in home zone by default. That is, the PIR detector will not trigger an alarm after you press the [Stay] button.
The zones include home zone, normal zone, 24-hour zone. For details of each zone, please refer to page 30.

SOS

In case of emergency, you can press the [SOS] button.

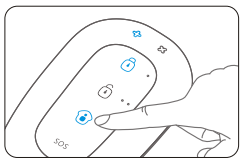
Whenever you press the [SOS] button on the remote control, the siren will alarm immediately.



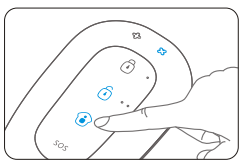
Mute Operation

You can arm and disarm the system silently.

Press and hold the [Stay] button for 1 second, and then press the [Arm] button within 3 seconds. The system is armed silently.

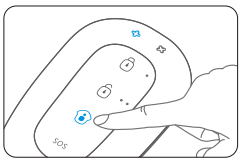


Press and hold the [Stay] button for 1 second, and then press the [Disarm] button within 3 seconds. The system is disarmed silently.

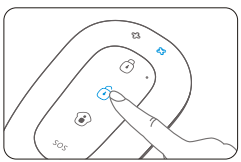


Nightlight On/Off

Press the [Stay] button twice, the siren switches to home mode silently and the nightlight is on.



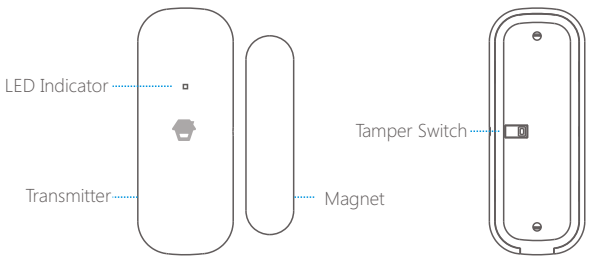
Press the [Disarm] button, the siren disarms and switches off the nightlight.



Test and Install the Door/Window Contact

The contact contains a transmitter and a magnet, which can be mounted on a door, window, or any object that can be opened or closed. When the transmitter and magnet are separated, or the tamper switch is pressed, the system will trigger an alarm.

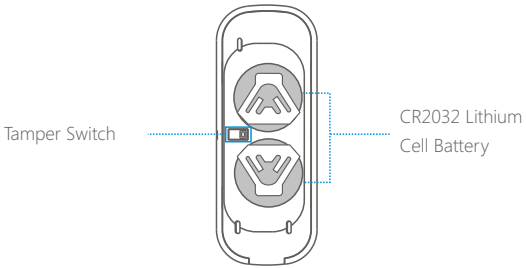
Overview



LED Indication

Blinks once: Intruder is detected.
Blinks once per 3 seconds after triggered: Low battery. Replace the battery as soon as possible.

PCB Layout

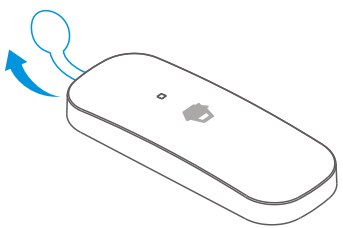


Test the Door/Window Contact

This is to test whether the contact can work properly.

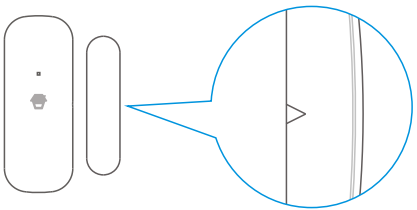
1. Remove the insulating strip

The contact works immediately.



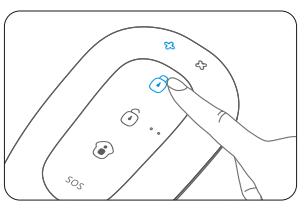
2. Pay attention to the direction

There are triangle marks on the side of the transmitter and magnet. Make sure the triangle marks is close to each other and within the range of 1 cm.

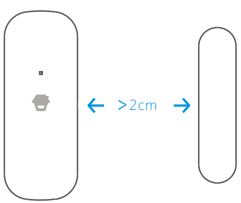


3. Test the door/window contact

Press the [Arm] button. The system switches to the arm state. Separate the transmitter and magnet with the space more than 2 cm. The LED on the transmitter blinks once, then the siren alarms. This means the contact works properly.



1



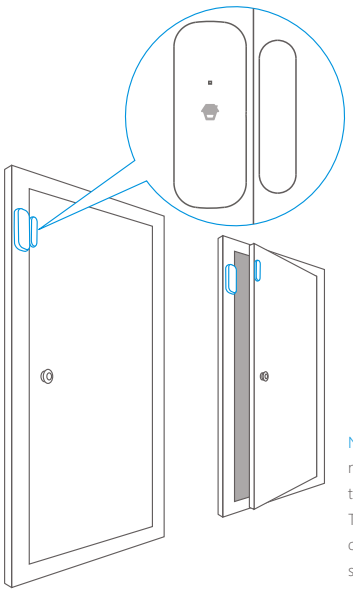
2

Install the Door/Window Contact

Make sure the triangle marks on the side of the transmitter and magnet are close to each other and within the range of 1 cm when installing.

Secure the contact with double-sided tapes

Secure the transmitter and magnet on the desired locations with double-sided tapes.

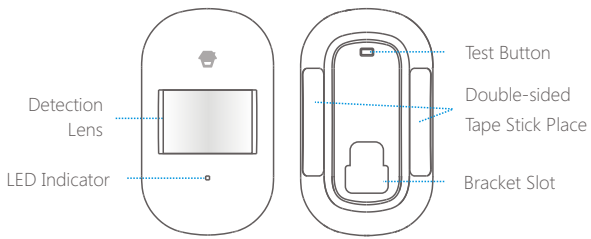


Note: If this product is installed on metal door, place spacers under the transmitter and magnet.
This product is not suitable for shutter door, please purchase shutter door sensor for your use.

Test and Install the PIR Motion Detector

The detector adopts digital dual-core fuzzy logic control processing technology and intelligent analysis algorithm, effective resolution of interfering signal and human movement signal, preventing false alarm. It features automatic temperature compensation and resistance to flow technology, adapting to environmental and temperature change. It can detect human movement within the 8-meter cone space, suitable for halls, hallways, etc.

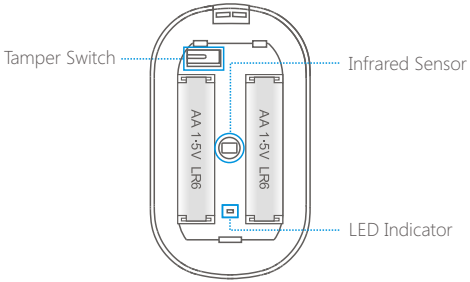
Overview



LED Indication

Blinks continuously: Self-testing.
Blinks once: Intrusion is detected.
Blinks twice: 3 minutes testing mode is finished, enters power saving mode.
Blinks once per 3 seconds: Low battery indication, please change the batteries immediately.

PCB Layout

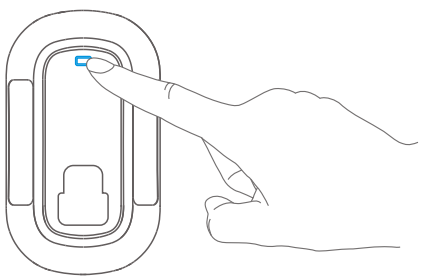


Note: When tamper switch is triggered, the siren will alarm immediately.

Working Mode

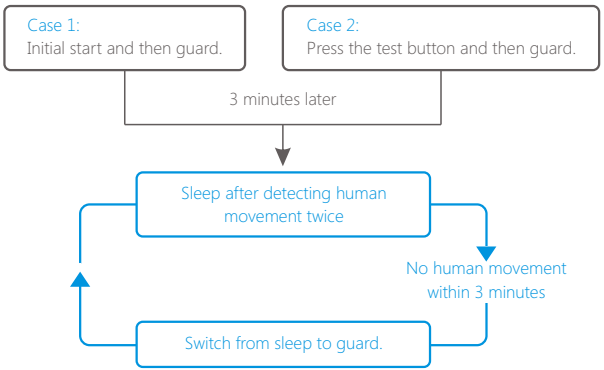
Testing Mode

After self-testing, press the test button, the detector switches to the testing mode and detects once every 10 seconds. It triggers an alarm. After 3 minutes, the LED blinks twice, and the detector switches to the power-saving mode.



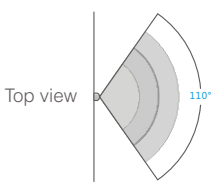
Power-Saving Mode

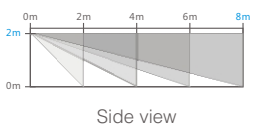
The product features power-saving design. If the detector detects human movement twice in 3 minutes, it will switch to the sleeping state to save power. At this time, the LED will not blink and no alarm. After no movement within the next 3 minutes, the detector switches back to the working state automatically.


Case 1:
Initial start and then guard.
Case 2:
Press the test button and then guard.
3 minutes later
Sleep after detecting human movement twice
No human movement within 3 minutes
Switch from sleep to guard.

Note: After the detector is in the sleeping state, ensure no human movement within 3 minutes; otherwise, the detector remains sleeping.
In the sleeping state, it is recommended that you leave the room after arming the system. Ensure no human movement in 3 minutes. Then, go into the room, the siren alarms immediately.

Detection Scope



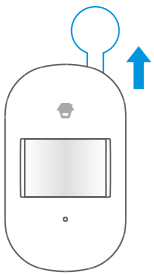


Test the PIR Motion Detector

This is to test whether the PIR detector works normally.

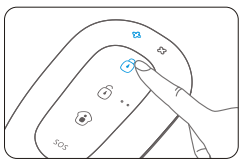
1. Remove the insulating strip

Remove the insulating strip.



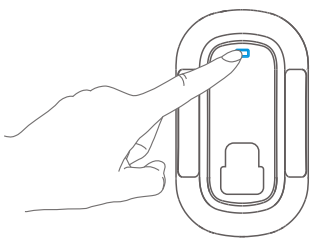
2. Arm the system

Press the [Arm] button on the remote control. The system is armed.



3. Trigger an alarm

Keep pressing the test button at the back until the siren sounds. It indicates that the PIR motion detector is connected to the siren.



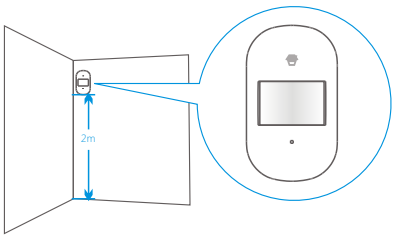
Install the PIR Motion Detector

After making sure the detector works normally, do as follows:

1. Choose a suitable installation location

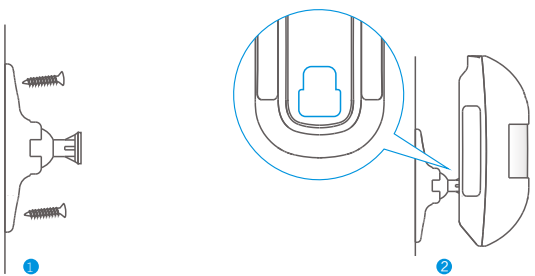
It is recommended to mount it at the height of 2m from the ground.

For installation notices, please see page 23-25.



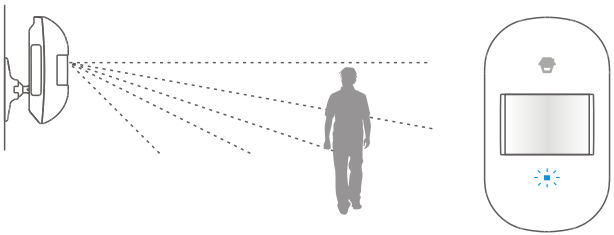
2. Fix the detector

Fix the installation bracket on the wall with screws, and then fit the groove at the back of the detector on the bracket. For the detector of this model, you can stick it at the corner with double-sided tapes.



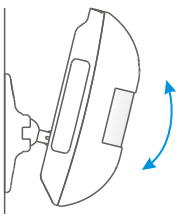
3. Test the PIR motion detector

Press the test button at the back. It switches to the testing mode and sustains for 3 minutes. Walk in the detection scope and observe the LED. When human movement is detected, the LED blinks once.

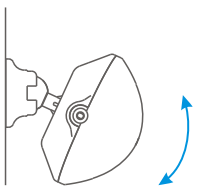


4. Adjust the angle

Adjust the bracket angle to achieve the best detection effect.



Side view



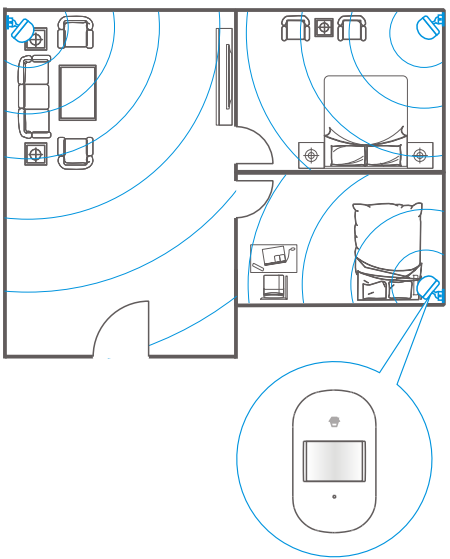
Top view

Installation Notices

Pay attention to the following during installation:

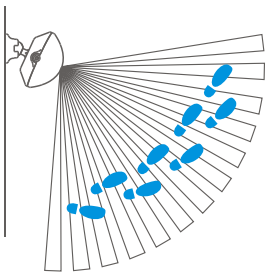
Mount the detector to a location close to the entry or exit

The detector aims at preventing intrusion. Detecting human movement at the entry or exit is critical for security.



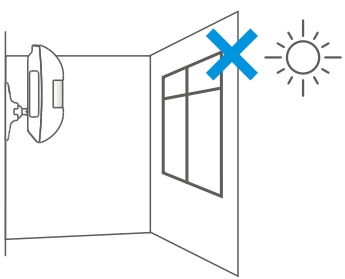
Mount the detector in a proper angle

The installation angle affects sensitivity directly. The sensitivity is optimal when the walk direction is vertical to the infrared direction. Choose the best location and angle according to the actual situation and detection scope diagram.



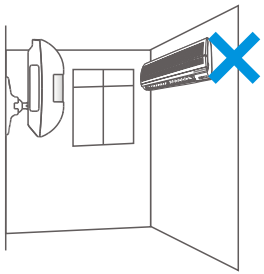
Avoid facing to glass windows or doors

Strong light interferes with detection sensitivity. In addition, complicated situations, such as traffic flow, stream of people, also should be avoided.



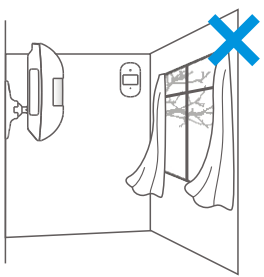
Avoid facing to or positioning close to heat/cold sources

Heat/cold sources, such as heat extraction units, heaters, air conditioner, microwave oven, refrigerator, which may cause false triggering, should be avoided.



Avoid facing to swinging objects

Swinging objects may also trigger false triggering. Besides, if there are two detectors covering the save scope, adjust the locations to prevent cross-interference.



Connecting and Deleting Accessories

Accessories need to be paired to the siren so that the siren can receive signals from them, and sound the alarm. Accessories in the kit have been paired to the siren before delivery, and ready for use. If the siren does not alarm when detectors are triggered, please pair them again. Accessories purchased separately must be paired to the siren before use.

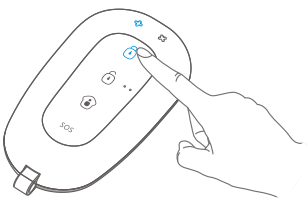
Pairing the Remote Control

① Press the connect button on the siren

Press the connect button on the siren, it beeps once, 3 seconds later, it beeps once again and the strobe flashes, indicating the siren is ready for pairing.

② Press any button on the remote control

Press any button on the remote control, the siren beeps once, indicating successful pairing.



Note: If the siren beeps twice, it indicates the remote control has been paired before.

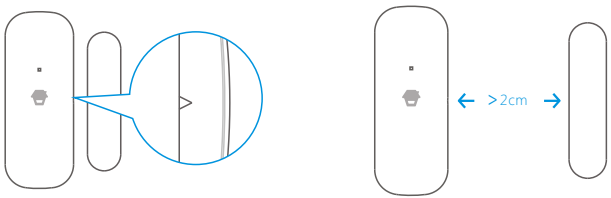
Pairing the Door/Window Contact

① Press the connect button on the siren

Press the connect button on the siren, it beeps once, 3 seconds later, it beeps once again and the strobe flashes, indicating the siren is ready for pairing.

② Separate the transmitter and magnet

Make sure the triangle marks close to each other and within the range of 1cm, and then separate them with the space more than 2 cm. The siren beeps once indicates successful pairing.



Note: If the siren beeps twice, it indicates the door/window contact has been paired before.

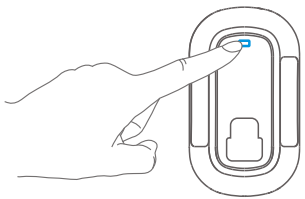
Pairing the PIR Motion Detector

① Press the connect button on the siren

Press the connect button on the siren, it beeps once, 3 seconds later, it beeps once again and the strobe flashes, indicating the siren is ready for pairing.

② Press the test button on the PIR motion detector

Press the test button at the back of the PIR motion detector. The siren beeps once, indicating successful pairing.



Note: If the siren beeps twice, it indicates the PIR motion detector has been paired before.

Deleting Accessories

Deleting accessories is to disconnect accessories from the siren. After that, the siren cannot receive signals from accessories nor trigger alarms.

Press and hold the connect button on the siren for 6 seconds, the siren beeps once and the strobe flashes twice, indicating all the accessories are deleted.

Zone Mode of Wireless Accessories

The zone mode of wireless accessory includes: normal zone, home mode zone or 24-H zone.

Normal Zone: In arm or home mode status, the system will alarm immediately once the sensors in normal zone is triggered.

Home Mode Zone: In home mode status, the system will not alarm once the sensor in home mode zone is triggered.

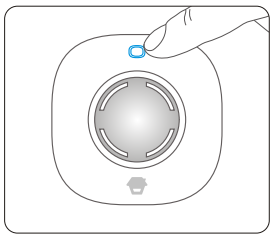
24-H Zone: In any condition, the system will alarm immediately once the 24-H zone detector is triggered.

Sensor	Default Zone
MD2300 PIR Motion Detector	Home Mode Zone
DS2300 Door/Window Contact	Normal Zone

Note: The default zone setting of smoke detector, gas detector or outdoor beam sensors are 24-H zone.

Entry and Exit Delay

If you do not want to take the remote control, entry and exit delay time can be set.



Press the connect button twice, delaying for 30 seconds.
Press the connect button for three times, delaying for 60 seconds.
Press the connect button for four times, disabling the function.

After setup, if you arm the system, the siren beeps once every 5 seconds until it goes to arm state. If the sensors are triggered, the siren will sound the alarm after the delay time.

Note: Press the [Arm] button on the remote control twice. The system switches to arm state immediately.

Act as an Accessory Kit

If user purchased our alarm system before, S105 can act as an accessory kit, working with the control panel after successful pairing.

Pairing the Siren to the Control Panel

① Press the connect button on the siren

Press the connect button on the siren, it beeps once, 3 seconds later, it beeps once again and the strobe flashes, indicating the siren is ready for pairing.

② Press the [Arm] or [SOS] button on the control Panel

Press the [Arm] or [SOS] button on the control panel, the siren beeps once, indicating successful pairing.

Exit the pairing status

Press the connect button on the siren, it beeps once, exiting the pairing status.

Test whether the siren has been paired

Press the [Arm] button on the remote control. If the siren and control panel both beep once, it indicates the pairing succeeds. If not, please pair them again.

Pairing Other Wireless Detectors to the Control Panel

After control panel enters its pairing status (please refer to its user manual), trigger the wireless detector, the control panel beeps once to indicate successfully pairing.

Deleting the Siren from the Control Panel

Press and hold the connect button on the siren for 6 seconds. The siren beeps once and the strobe flashes twice, the siren is deleted from the control panel.

Deleting Accessories from the Control Panel

Please refer to the manual of control panel.

Specifications

SS1005 On-Site Alarm Panel / Mini Strobe Siren

Power Supply
AC 100V~240V, 50/60 Hz
Volume
90dB
Backup Battery
3.7V 600mAh lithium battery
Static Current
⩽ 13mA
Alarm Current
⩽ 100mA
Radio Frequency
868MHz
Housing Material
PC+ABS plastic
Operating Condition
Temperature -10°C ~ +55°C
Relative Humidity ⩽ 80% (non-condensing)
Dimensions (L x W x H)
90 x 90 x 42.2mm (Not include plug part)

RE2300 Remote Control

Power Supply
DC 3V(CR2032 lithium cell battery x 1)
Transmit Current
⩽ 9.5 mA
Transmitting Distance
⩽ 80 m (open area/no interference)
Radio Frequency
868MHz
Housing Material
PC+ABS plastic
Operating Condition
Temperature -10℃~+55℃
Relative Humidity ⩽ 80% (non-condensing)
Dimensions (L x W x H)
71 x 38 x 12 mm

DS2300 Door/Window Contact

Power Supply

DC 3V(CR2032 lithium cell battery x 2)

Static Current

⩽ 1 uA

Alarm Current

⩽ 10.5 mA

Transmitting Distance

⩽ 80 m (open area/no interference)

Radio Frequency

868MHz

Housing Material

ABS plastic

Operating Condition

Temperature -10℃ ~ +55℃

Relative Humidity ⩽ 80% (non-condensing)

Transmitter Dimensions (L x W x H)

72.5 x 28 x 10 mm

Magnet Dimensions (L x W x H)

58 x 14 x 9.5 mm

MD2300 PIR Motion Detector

Power Supply

DC 3V(1.5V AA battery x 2)

Static Current

⩽ 50 uA

Alarm Current

⩽ 11 mA

Detection Scope

8m/110°

Transmitting Distance

⩽ 80 m (open area/no interference)

Radio Frequency

868MHz

Housing Material

ABS plastic

Operating Condition

Temperature -10℃ ~ +55℃

Relative Humidity ⩽ 80% (non-condensing)

Detector Dimensions (L x W x H)

101.5 x 59 x 37.5 mm

Bracket Dimensions (L x W x H)

60 x 29 x 27 mm

Disclaimer

smanos have reviewed this manual thoroughly in order to make it an easy to use guide for this product. All statements, technical information, recommendations in this manual are believed reliable, but the accuracy and completeness are not guaranteed or warranted.
The specifications and information regarding the products in this document are subject to change without notice.
Photocopy, copy, reproduction, translation to any language, modification, storage in a retrieval system or retransmission, in any form or by any means, electronic, mechanical or otherwise, is strictly prohibited without prior written permission.
In no event shall smanos be liable for any indirect, special, incidental, or consequential damages, including, without limitation, lost profits or loss or damage to data arising out of the use or inability to use this document, even if smanos has been advised of the possibility of such damages.

Caution and Warnings

Due to laws and regulations determined by the Euopean Parliament, some (wireless) devices may be subject to restrictions on its use in certain European countries. In some EU Member States, the use of equipment are prohibited. Contact your (local) government for more information on these restrictions.

Always follow the instructions in the manual, especially when it concerns devices which need to be assembled.
Warning: in most cases it is an electronic device. Incorrect or improper uses of the device may result in (serious) injuries.

Repairing the unit must be done by smanos qualified personnel. The warranty expires immediately if the unit is repaired and/or when the product is misused.

Terms of Warranty

The three-year warranty applies to all smanos products unless otherwise specified at the time of purchase. When buying a second hand smanos product the product warranty remains measured from the time it was bought by the original owner. Power supplies, batteries, antennas and all other products integrated in or directly connected with the main product or products that may reasonably assumed to have a different wear pattern than the main product are therefore not covered by the smanos guarantee. The warranty doesn't apply when incorrect or improper use, external influences and/or opening of the housing has been done by parties other than smanos.

SMANOS HOLDING LTD
Jacobus Spijkerdreef 386
2132 PZ Hoofddorp
the Netherlands
www.smanos.com

Notes

Sensor	Sensor type	Name	Group		
			Normal	Home	24/7
Zone 1	Magnet contact				
Zone 2	Motion detector				
Zone 3					
Zone 4					
Zone 5					
Zone 6					
Zone 7					
Zone 8					
Zone 9					
Zone 10					
Zone 11					
Zone 12					
Zone 13					
Zone 14					
Zone 15					
Zone 16					

CHUANGO®

产品型号	WS-105	部件名称	说明书
设　　计	林寿	材　　料	80克书写纸
印刷尺寸	210X142mm	成品尺寸	105X142mm
工　　艺	骑马钉-44P	版　　本	PA: OI-05S-EN-1404-V1.0

注:
双色、双面印刷